

L Number	Hits	Search Text	DB	Time stamp
1	90658	peptidase or protease or proteinase or proteolytic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/11 17:26
2	14945	(peptidase or protease or proteinase or proteolytic) and (( ph ) near3 (3.8 or 3.9 or 4.0 or 4.1 or 4.2 or 4.3 or 4.4 or 4.5 or 4.6 or 4.7 or 4.8 or 4.9 or 5.0 or 5.1 or 5.2))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/11 17:29
3	1446	((peptidase or protease or proteinase or proteolytic) and (( ph ) near3 (3.8 or 3.9 or 4.0 or 4.1 or 4.2 or 4.3 or 4.4 or 4.5 or 4.6 or 4.7 or 4.8 or 4.9 or 5.0 or 5.1 or 5.2))) and (("53" or "54" or "55" or "56" or "57" or "58" or "59" or "60" or "61" or "62") near3 (temperature))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/11 17:31
4	177	((peptidase or protease or proteinase or proteolytic) and (( ph ) near3 (3.8 or 3.9 or 4.0 or 4.1 or 4.2 or 4.3 or 4.4 or 4.5 or 4.6 or 4.7 or 4.8 or 4.9 or 5.0 or 5.1 or 5.2))) and (("53" or "54" or "55" or "56" or "57" or "58" or "59" or "60" or "61" or "62") near3 (temperature))) and (cbz or (carbobenzoxo))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/11 17:33
5	131	((peptidase or protease or proteinase or proteolytic) and (( ph ) near3 (3.8 or 3.9 or 4.0 or 4.1 or 4.2 or 4.3 or 4.4 or 4.5 or 4.6 or 4.7 or 4.8 or 4.9 or 5.0 or 5.1 or 5.2))) and (("53" or "54" or "55" or "56" or "57" or "58" or "59" or "60" or "61" or "62") near3 (temperature))) and (cbz or (carbobenzoxo))) and (clone or sequence or dna or cdna or polynucleotide)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/11 17:34
6	13	((peptidase or protease or proteinase or proteolytic) and (( ph ) near3 (3.8 or 3.9 or 4.0 or 4.1 or 4.2 or 4.3 or 4.4 or 4.5 or 4.6 or 4.7 or 4.8 or 4.9 or 5.0 or 5.1 or 5.2))) and (("53" or "54" or "55" or "56" or "57" or "58" or "59" or "60" or "61" or "62") near3 (temperature))) and (cbz or (carbobenzoxo))) and (clone or sequence or dna or cdna or polynucleotide)) and (carboxypeptidase or carboxyprotease or carboxyproteinase or (carboxy adj peptidase) or (carboxy adj protease) or (carboxy adj proteinase) or carboxy-peptidase or carboxy-protease or carboxy-proteinase)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/12/11 17:37

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proteinase) or carboxy-peptidase or carboxy-protease or carboxy-proteinase)  
UNMATCHED RIGHT PARENTHESIS 'PROTEINASE)'  
The number of right parentheses in a query must be equal to the  
number of left parentheses.

=> s carboxypeptidase or carboxypeptinase or carboxypeptinase or (carboxy  
peptidase) or (carboxy protease) or (carboxy proteinase) or carboxy-peptidase or  
carboxy-protease or carboxy-proteinase  
18 FILES SEARCHED...  
32 FILES SEARCHED...  
52 FILES SEARCHED...  
69 FILES SEARCHED...



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93 FILES SEARCHED...
L1      112072 CARBOXYPEPTIDASE OR CARBOXYPROTEASE OR CARBOXYPROTEINASE OR
          (CARBOXY PEPTIDASE) OR (CARBOXY PROTEASE) OR (CARBOXY PROTEINASE
          ) OR CARBOXY-PEPTIDASE OR CARBOXY-PROTEASE OR CARBOXY-PROTEINASE

=> duplicate
ENTER REMOVE, IDENTIFY, ONLY, OR (?):remove
ENTER L# LIST OR (END):l1
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112072 ANSWERS REQUESTED EXCEEDS MAXIMUM ALLOWED OF 50000
You may process up to 50,000 answers per command. Please try to
narrow your search until your resulting L# answer set is within the
maximum number of answers.

=> s l1 and (cbz or (carbobenzoxo))
UNMATCHED LEFT PARENTHESIS 'AND (CBZ'
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s l1 and (cbz or (carbobenzoxo))
    56 FILES SEARCHED...
    103 FILES SEARCHED...
L2      827 L1 AND (CBZ OR (CARBOBENZOXO))

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ENTER L# LIST OR (END):l2
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EMBASE, ESBIOBASE, FROSTI, FSTA, IFIPAT, JICST-EPLUS, LIFESCI, MEDLINE'
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PROCESSING COMPLETED FOR L2
L3      489 DUPLICATE REMOVE L2 (338 DUPLICATES REMOVED)

=> s l3 and (("53" or "54" or "55" or "56" or "57" or "58" or "59" or "60" or "61"
or "62") (3A) (temperature))
    14 FILES SEARCHED...
    30 FILES SEARCHED...
    46 FILES SEARCHED...
    56 FILES SEARCHED...
    64 FILES SEARCHED...
    78 FILES SEARCHED...
    94 FILES SEARCHED...
    101 FILES SEARCHED...
L4      46 L3 AND ("53" OR "54" OR "55" OR "56" OR "57" OR "58" OR "59"
          OR "60" OR "61" OR "62") (3A) (TEMPERATURE))

=>
<-----User Break----->

=> l3 and ((53 or 54 or 55 or 56 or 57 or 58 or 59 or 60 or 61 or 62) (3A)
(temperature))

```

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"HELP COMMANDS" at an arrow prompt (=>).

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(temperature))

15 FILES SEARCHED...

33 FILES SEARCHED...

49 FILES SEARCHED...

60 FILES SEARCHED...

68 FILES SEARCHED...

87 FILES SEARCHED...

101 FILES SEARCHED...

L5 46 L3 AND ((53 OR 54 OR 55 OR 56 OR 57 OR 58 OR 59 OR 60 OR 61  
OR 62) (3A) (TEMPERATURE))

=> d l5 1-46 bib

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AN 1950:3299 CAPLUS

DN 44:3299

OREF 44:681c-i,682a-i,683a-c

TI Synthesis of peptides of methionine and their cleavage by proteolytic  
enzymes

AU Dekker, Charles A.; Taylor, Sterling P., Jr.; Fruton, Joseph S.

SO Journal of Biological Chemistry (1949), 180, 155-73

CODEN: JBCHA3; ISSN: 0021-9258

DT Journal

LA Unavailable

L5 ANSWER 2 OF 46 IFIPAT COPYRIGHT 2003 IFI on STN

AN 10163132 IFIPAT;IFIUDB;IFICDB

TI THERMOSTABLE PEPTIDASE; ENZYMATIC PEPTIDE FOR USE IN FOR USE IN THE  
TREATMENT OF ALZHEIMER'S DISEASE

INF Chan; Sunney I., Pasadena, CA, US

Cheng; Timothy C., Pasadena, CA, US

Ramakrishnan; Vij, Pasadena, CA, US

IN Chan Sunney I; Cheng Timothy C; Ramakrishnan Vij

PAF California Institute of Technology, a California corporation

PA California Institute of Technology (13190)

AG SCOTT C. HARRIS Fish & Richardson P.C., Suite 500, 4350 La Jolla Village  
Drive, San Diego, CA, 92122, US

PI US 2002106779 A1 20020808

AI US 2001-969125 20010924

RLI US 1999-333768 19990615 DIVISION 6294367

PRAI US 1998-89398P 19980615 (Provisional)

FI US 2002106779 20020808

US 6294367

DT Utility; Patent Application - First Publication

FS CHEMICAL

APPLICATION

GOVI (0002) The U.S. Government has certain rights in this invention pursuant  
to Grant No. GM 22432-23 awarded by the National Institute of Health.

CLMN 38

GI 12 Figure(s).

FIG. 1 shows the purification of PfuCP from *P. furiosus* crude extract. The  
fractions containing maximum activity from each purification step were  
analyzed by denaturing and reducing SDS-PAGE. Samples were pre-incubated  
at 80 degrees C. for 1 min in 0.1%SDS and run on a 12% Tris-glycine gel.

FIG. 2 shows oligomeric behavior of PfuCP. (A) Purified apoPfuCP was  
examined by SDS-PAGE under reducing or non-reducing conditions (in the  
presence or absence of 2 mM DTT), with or without pre-heating (Delta) at  
80 degrees C. Dimer bands, D1 and D2. appear at an apparent molecular

mass of about 85 kDa while monomeric PfuCP (M) appears at 58 kDa. (B) Purified enzyme was exchanged twice with deionized water by ultrafiltration and then analyzed by MALDI-TOF MS in the presence or absence of 2 mM DTT.

FIG. 3 shows the amino acid sequence analysis of PfuCP. The amino acid sequences of the N-terminus (Pfu-N) and two Endo-Lys C fragments of PfuCP (Pfu-I and Pfu-II) were aligned with the sequence of the putative P. horikoshii **carboxypeptidase** (PhoCP) using the GAP program from GCG software v.8. The gap weight was 3.0 and the extension penalty was 0.1. The N-terminal extension of the PhoCP gene product is also shown.

FIG. 4 shows the divalent metal ion dependence of PfuCP. (A) Activity assays were performed under standard conditions while the concentration of reconstituting divalent metal ion was varied:  $\text{Co}^{2+}$  (circle-solid);  $\text{Zn}^{2+}$  (O). Samples were preincubated on ice with metal ions for 1 hour. Data shown represent the average of duplicate values. (B) Linear reciprocal plot of binding data for  $\text{Co}^{2+}$ .

FIG. 5 shows the temperature and pH profiles of PfuCP activity. (A) Activity assays were performed under standard conditions as the sample temperature was increased from 20 degrees C. to 100 degrees C. Data shown represent an average of duplicate values and activity is normalized to the maximum activity at 100 degrees C. (B) Arrhenius plot of **temperature** dependence data from 59-93 degrees C. (C) Activity assays were performed under standard conditions with the following buffers: piperazine (O), pH 4.8-6.2; KMES (circle-solid), pH 5.3-6.9; MOPS (\*), pH 6.57.5; HEPES (diamond-suit), pH 6.9-8.0. Data shown represent an average of duplicate values and activity is normalized to the maximum activity observed in 0.1 M MOPS (pH 6.5).

FIG. 6 shows far-UV circular dichroism spectra of PfuCP. Potential changes in the secondary structure of the purified PfuCP were monitored in 10 mM potassium phosphate buffer (pH 7.0). Spectra were recorded for the following: i) apoPfuCP at room temperature (O); ii) the  $\text{Co}^{2+}$ -incubated sample at 80 degrees C. (circle-solid). Concentration of PfuCP was 15  $\mu\text{M}$ . The spectra had two ellipticity minima at 222 and 210 nm, and a maximum at 199 nm.

FIG. 7 shows the intrinsic fluorescence of PfuCP. (A) Comparison of emission spectra at 22 and 80 degrees C. The following fluorescence spectra were recorded: i) apoPfuCP at 22 degrees C. (O); ii) the  $\text{Co}^{2+}$ -incubated sample at 80 degrees C. for 5 minutes (vert-bar). (B) fluorescence intensity as a function of temperature. Emission spectra were also recorded for the  $\text{Co}^{2+}$ -incubated sample at the following temperatures (degrees C.): 22, 47, 55, 60, 65, 70, 75, 80, and 85. The maximum excitation and emission wavelengths were 290 and 344 nm, respectively, and the bandwidth was 8 nm. Concentration of PfuCP for all fluorescence experiments was 15  $\mu\text{M}$ .

FIG. 8 shows the thermal inactivation of ApoPfuCP. ApoPfuCP (730 nM in 0.1 M KMES, pH 6.5) was pre-incubated at 80 degrees C. for various time points and then residual activity was assayed under standard conditions. The residual activity was calculated as the fraction of the remaining activity relative to the unheated enzyme maintained on ice. Data points represent the average of duplicate values.

FIG. 9 shows the C-terminal specificities of PfuCP. (A) Activity assays were performed under standard conditions for the hydrolysis of a series of synthetic N-**Cbz**-alanyl-Xaa (ZAX) dipeptides. PfuCP shows a preference for basic, aliphatic and aromatic C-terminal amino acids. Activity against ZAS, ZAH, and ZAN was observed at longer digestion times (30 min). Data shown represent the average of triplicate values. (B) Activity assays were performed under standard conditions while varying the concentration of the N-blocked dipeptide ZAR. Data shown represent the average of duplicate values.

FIG. 10 shows the C-terminal ladder sequencing of N-acetyl-renin substrate by PfuCP. The digestion was performed in 5 mM KMES buffer (pH 6.5) with 50  $\mu\text{M}$  N-acetyl-renin substrate, 0.4 mM  $\text{CoCl}_2$ , and 150 nM purified apoPfuCP (total volume 5  $\mu\text{l}$ ). The reaction was carried out for 1 minute at 80 degrees C. followed by quenching on ice and the addition of 0.1%

TFA. The sample was subsequently analyzed by MALDI-TOF MS and the monoisotopic masses were recorded.  
FIG. 11 shows the hydrolysis of ZAR.  
FIG. 12 is a table showing the purification of PfuCP from *P. furiosus*.

L5 ANSWER 3 OF 46 USPATFULL on STN  
AN 2003:250525 USPATFULL  
TI Recombinant coccidiosis vaccines  
IN Binger, Mary-Helen, Hopewell, NJ, UNITED STATES  
Chizzonite, Richard Anthony, South Kent, CT, UNITED STATES  
Kramer, Richard Allen, West Orange, NJ, UNITED STATES  
Lomedico, Peter Thomas, Montclair, NJ, UNITED STATES  
McAndrew, Stephen J., Meriden, CT, UNITED STATES  
Altenburger, Werner, Muenchenstein, SWITZERLAND  
PA ALPHARMA INC. (U.S. corporation)  
PI US 2003175311 A1 20030918  
AI US 2002-267430 A1 20021009 (10)  
RLI Continuation of Ser. No. US 1996-744793, filed on 1 Nov 1996, ABANDONED  
Division of Ser. No. US 1991-812349, filed on 20 Dec 1991, GRANTED, Pat.  
No. US 5661015 Continuation-in-part of Ser. No. US 1988-202721, filed on  
3 Jun 1988, ABANDONED  
DT Utility  
FS APPLICATION  
LREP Stephen M. Haracz, Esq., BRYAN CAVE LLP, 245 Park Avenue, New York, NY,  
10167-0034  
CLMN Number of Claims: 97  
ECL Exemplary Claim: 1  
DRWN 47 Drawing Page(s)  
LN.CNT 5035  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 4 OF 46 USPATFULL on STN  
AN 2003:244458 USPATFULL  
TI Novel thermostable proteolytic enzymes and uses thereof in peptide and  
protein synthesis  
IN Young, David Michael, Gainesville, FL, UNITED STATES  
PI US 2003170867 A1 20030911  
AI US 2003-379952 A1 20030304 (10)  
RLI Division of Ser. No. US 1999-404031, filed on 23 Sep 1999, GRANTED, Pat.  
No. US 6573065 Division of Ser. No. US 1998-197945, filed on 23 Nov  
1998, GRANTED, Pat. No. US 6143517 Continuation of Ser. No. US  
1996-773475, filed on 23 Dec 1996, ABANDONED  
DT Utility  
FS APPLICATION  
LREP SALIWANCHIK LLOYD & SALIWANCHIK, A PROFESSIONAL ASSOCIATION, 2421 N.W.  
41ST STREET, SUITE A-1, GAINESVILLE, FL, 326066669  
CLMN Number of Claims: 15  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 926  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 46 USPATFULL on STN  
AN 2003:207303 USPATFULL  
TI Enantioselective oligomerization of alpha-hydroxy carboxylic acids and  
alpha-amino acids  
IN Lorbert, Stephen J., St. Louis, MO, UNITED STATES  
Schasteen, Charles S., St. Charles, MO, UNITED STATES  
Nam, Paul K.S., Rolla, MO, UNITED STATES  
Forciniti, Daniel, Rolla, MO, UNITED STATES  
Rajesh, Mathur P., Rolla, MO, UNITED STATES  
Kapila, Shubhender, Rolla, MO, UNITED STATES  
PA Novus International, Inc. (U.S. corporation)  
PI US 2003143661 A1 20030731

AI US 2002-136974 A1 20020502 (10)  
RLI Continuation-in-part of Ser. No. US 2000-699946, filed on 30 Oct 2000,  
PENDING  
PRAI US 2001-288196P 20010502 (60)  
US 1999-162725P 19991029 (60)  
DT Utility  
FS APPLICATION  
LREP SENNIGER POWERS LEAVITT AND ROEDEL, ONE METROPOLITAN SQUARE, 16TH FLOOR,  
ST LOUIS, MO, 63102  
CLMN Number of Claims: 85  
ECL Exemplary Claim: 1  
DRWN 76 Drawing Page(s)  
LN.CNT 2611  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 6 OF 46 USPATFULL on STN  
AN 2003:148872 USPATFULL  
TI Thermostable proteolytic enzymes and uses thereof in peptide protein  
synthesis  
IN Young, David Michael, 2106 NW. 27th Ter., Gainesville, FL, United States  
32605  
PI US 6573065 B1 20030603  
AI US 1999-404031 19990923 (9)  
RLI Continuation of Ser. No. US 1998-197945, filed on 23 Nov 1998, now  
patented, Pat. No. US 6143517 Continuation of Ser. No. US 1996-773475,  
filed on 23 Dec 1996, now abandoned  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Nashed, Nashaat T.  
CLMN Number of Claims: 5  
ECL Exemplary Claim: 1  
DRWN 0 Drawing Figure(s); 0 Drawing Page(s)  
LN.CNT 947  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 7 OF 46 USPATFULL on STN  
AN 2003:79285 USPATFULL  
TI Endothelin-antagonizing peptide  
IN Tanaka, Takeo, Tokyo, JAPAN  
Morishita, Yoshikazu, Tokyo, JAPAN  
Makino, Mika, Muroran-shi, JAPAN  
Chiba, Shigeru, Kawasaki-shi, JAPAN  
Kawamoto, Isao, Hiratsuka-shi, JAPAN  
Tsukuda, Eiji, Sunto-gun, JAPAN  
Yoshida, Mayumi, Sagamihara-shi, JAPAN  
Bando, Chieko, Tokyo, JAPAN  
Yamaguchi, Kazuo, Sagamihara-shi, JAPAN  
Matsuda, Yuzuru, Tokyo, JAPAN  
Kitamura, Shigeto, Tokyo, JAPAN  
Ikemura, Toshihide, Mishima-shi, JAPAN  
Ogawa, Tatsuhiro, Kawasaki-shi, JAPAN  
Yano, Keiichi, Kawasaki-shi, JAPAN  
Suzawa, Toshiyuki, Yamato-shi, JAPAN  
Shibata, Kenji, Kawasaki-shi, JAPAN  
Yamasaki, Motoo, Tokyo, JAPAN  
PI US 2003055213 A1 20030320  
US 6642355 B2 20031104  
AI US 2001-750754 A1 20010102 (9)  
RLI Division of Ser. No. US 1998-181083, filed on 27 Oct 1998, PATENTED  
Continuation of Ser. No. US 1997-804923, filed on 24 Feb 1997, ABANDONED  
Division of Ser. No. US 1994-321625, filed on 12 Oct 1994, PATENTED  
Continuation-in-part of Ser. No. US 1993-108612, filed on 27 Aug 1993,  
ABANDONED  
PRAI JP 1991-347293 19911227

WO 1992-JP1731 19921228  
DT Utility  
FS APPLICATION  
LREP ANTONELLI TERRY STOUT AND KRAUS, SUITE 1800, 1300 NORTH SEVENTEENTH  
STREET, ARLINGTON, VA, 22209  
CLMN Number of Claims: 9  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 3255  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 8 OF 46 USPATFULL on STN  
AN 2003:37152 USPATFULL  
TI Method for treating a subject suffering from conditions associated with  
an extracellular zinc sphingomyelinase  
IN Tabas, Ira, New City, NY, UNITED STATES  
Schissel, Scott L., Tea Neck, NJ, UNITED STATES  
Williams, Kevin Jon, Wynnewood, PA, UNITED STATES  
PI US 2003026796 A1 20030206  
US 6613322 B2 20030902  
AI US 2000-518805 A1 20000303 (9)  
RLI Continuation of Ser. No. WO 1998-US18362, filed on 4 Sep 1998, UNKNOWN  
Continuation-in-part of Ser. No. US 1997-937234, filed on 5 Sep 1997,  
PATENTED  
DT Utility  
FS APPLICATION  
LREP Cooper & Dunham LLP, John P White, 1185 Avenue of the Americas, New  
York, NY, 10036  
CLMN Number of Claims: 38  
ECL Exemplary Claim: 1  
DRWN 30 Drawing Page(s)  
LN.CNT 4519  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 9 OF 46 USPATFULL on STN  
AN 2003:11125 USPATFULL  
TI Peptidyl heterocyclic ketones useful as tryptase inhibitors  
IN Costanzo, Michael J., Ivyland, PA, UNITED STATES  
Maryanof, Bruce E., Forest Grove, PA, UNITED STATES  
Yabut, Stephen C., North Wales, PA, UNITED STATES  
PI US 2003008829 A1 20030109  
AI US 2002-205355 A1 20020725 (10)  
RLI Division of Ser. No. US 2000-482802, filed on 13 Jan 2000, GRANTED, Pat.  
No. US 6469036  
PRAI US 1999-117602P 19990127 (60)  
DT Utility  
FS APPLICATION  
LREP AUDLEY A. CIAMPORCERO JR., JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON  
PLAZA, NEW BRUNSWICK, NJ, 08933-7003  
CLMN Number of Claims: 24  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 2066  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 10 OF 46 USPATFULL on STN  
AN 2002:276110 USPATFULL  
TI Peptidyl heterocyclic ketones useful as tryptase inhibitors  
IN Costanzo, Michael J., Ivyland, PA, United States  
Maryanoff, Bruce E., Forest Grove, PA, United States  
Yabut, Stephen C., North Wales, PA, United States  
PA Ortho-McNeil Pharmaceutical, Inc., Raritan, NJ, United States (U.S.  
corporation)  
PI US 6469036 B1 20021022

AI US 2000-482802 20000113 (9)  
PRAI US 1999-117602P 19990127 (60)  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Raymond, Richard L.  
LREP Appollina, Mary A.  
CLMN Number of Claims: 24  
ECL Exemplary Claim: 1  
DRWN 0 Drawing Figure(s); 0 Drawing Page(s)  
LN.CNT 1870  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 11 OF 46 USPATFULL on STN  
AN 2002:73003 USPATFULL  
TI 1-amino-7-isoquinoline derivatives as serine protease inhibitors  
IN Liebeschuetz, John Walter, Bollington, UNITED KINGDOM  
Wylie, William Alexander, Stockport, UNITED KINGDOM  
Waszkowycz, Bohdan, Wilmslow, UNITED KINGDOM  
Murray, Christopher William, Macclesfield, UNITED KINGDOM  
Rimmer, Andrew David, Chorley, UNITED KINGDOM  
Welsh, Pauline Mary, Macclesfield, UNITED KINGDOM  
Jones, Stuart Donald, Prestbury, UNITED KINGDOM  
Roscoe, Jonathan Michael Ernest, Holsworthy, UNITED KINGDOM  
Young, Stephen Clinton, Stockport, UNITED KINGDOM  
Morgan, Phillip John, Congleton, UNITED KINGDOM  
Camp, Nicholas Paul, Macclesfield, UNITED KINGDOM  
Crew, Andrew Philip Austin, Congleton, UNITED KINGDOM  
PI US 2002040144 A1 20020404  
US 6420438 B2 20020716  
AI US 2001-865418 A1 20010529 (9)  
RLI Continuation of Ser. No. US 2000-485677, filed on 25 Feb 2000, GRANTED,  
Pat. No. US 6262069 A 371 of International Ser. No. WO 1998-GB2600,  
filed on 28 Aug 1998, UNKNOWN  
PRAI GB 1997-18392 19970829  
GB 1998-3173 19980213  
DT Utility  
FS APPLICATION  
LREP Martin A. Hay, 13 Queen Victoria Street, Macclesfield Cheshire UK, SK11  
6LP  
CLMN Number of Claims: 32  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 2033  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 12 OF 46 USPATFULL on STN  
AN 2001:185528 USPATFULL  
TI Inhibitors of metalloproteases, pharmaceutical compositions comprising  
same and methods of their use  
IN Campbell, David A., 1492 Ascension Dr., San Mateo, CA, United States  
94402  
Patel, Dinesh V., 45109 Cougar Cir., Fremont, CA, United States 94086  
Xiao, Xiao-Yi, 11025 N. Torrey Pines Rd., #100, La Jolla, CA, United  
States 92037  
PI US 6307101 B1 20011023  
AI US 1999-271801 19990317 (9)  
RLI Continuation of Ser. No. US 1998-81466, filed on 19 May 1998, now  
patented, Pat. No. US 5929278 Continuation of Ser. No. US 1995-549345,  
filed on 27 Oct 1995, now patented, Pat. No. US 5831004  
Continuation-in-part of Ser. No. US 1995-484255, filed on 7 Jun 1995,  
now abandoned Continuation-in-part of Ser. No. US 1994-329420, filed on  
27 Oct 1994, now abandoned  
DT Utility  
FS GRANTED

EXNAM Primary Examiner: Jones, Dwayne C.; Assistant Examiner:  
Delacroix-Muirheid, C.  
LREP Townsend and Townsend and Crew LLP  
CLMN Number of Claims: 4  
ECL Exemplary Claim: 1  
DRWN 17 Drawing Figure(s); 13 Drawing Page(s)  
LN.CNT 2251  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 13 OF 46 USPATFULL on STN  
AN 2001:163037 USPATFULL  
TI Thermostable peptidase  
IN Cheng, Timothy C., Pasadena, CA, United States  
Ramakrishnan, Vij, Pasadena, CA, United States  
Chan, Sunney I., Pasadena, CA, United States  
PA California Institute of Technology, Pasadena, CA, United States (U.S.  
corporation)  
PI US 6294367 B1 20010925  
AI US 1999-333768 19990615 (9)  
PRAI US 1998-89398P 19980615 (60)  
DT Utility  
FS GRANTED

EXNAM Primary Examiner: Prouty, Rebecca E.; Assistant Examiner: Monshipouri,  
Maryam  
LREP Fish & Richardson PC  
CLMN Number of Claims: 19  
ECL Exemplary Claim: 1  
DRWN 18 Drawing Figure(s); 12 Drawing Page(s)  
LN.CNT 1979  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 14 OF 46 USPATFULL on STN  
AN 2001:131430 USPATFULL  
TI Porphyromonas gingivalis arginine-specific proteinase coding sequences  
IN Travis, James, Athens, GA, United States  
Potempa, Jan Stanislaw, Athens, GA, United States  
Barr, Philip J., Berkeley, CA, United States  
Pavloff, Nadine, Novato, CA, United States  
PA University of Georgia Research Foundation, Inc., Athens, GA, United  
States (U.S. corporation)  
PI US 6274718 B1 20010814  
AI US 2000-490931 20000125 (9)  
RLI Continuation of Ser. No. US 1994-336308, filed on 8 Nov 1994, now  
patented, Pat. No. US 6017523 Continuation-in-part of Ser. No. WO  
1994-US10283, filed on 9 Sep 1994 Continuation of Ser. No. US  
1994-265441, filed on 24 Jun 1994, now abandoned Continuation-in-part of  
Ser. No. US 1993-119361, filed on 10 Sep 1993, now patented, Pat. No. US  
5523390  
DT Utility  
FS GRANTED

EXNAM Primary Examiner: Slobodyansky, Elizabeth  
LREP Greenlee Winner and Sullivan PC  
CLMN Number of Claims: 4  
ECL Exemplary Claim: 1  
DRWN 7 Drawing Figure(s); 5 Drawing Page(s)  
LN.CNT 2802  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 15 OF 46 USPATFULL on STN  
AN 2001:131056 USPATFULL  
TI Method of inhibiting cathepsin K  
IN Abdel-Meguid, Sherin Salaheldin, Exton, PA, United States  
Desjarlais, Renee Louise, St. Davids, PA, United States  
Janson, Cheryl Ann, Bryn Mawr, PA, United States



Smith, Jr., Ward Whitlock, Bryn Mawr, PA, United States  
 Zhao, Baoguang, King of Prussia, PA, United States  
 PA SmithKline Beecham Corporation, Philadelphia, PA, United States (U.S.  
 corporation)  
 PI US 6274336 B1 20010814  
 WO 9716177 19970509  
 AI US 1997-860255 19970626 (8)  
 WO 1996-US17512 19961030  
 19970626 PCT 371 date  
 19970626 PCT 102(e) date  
 PRAI US 1995-8108P 19951030 (60)  
 US 1995-7473P 19951122 (60)  
 US 1995-8992P 19951221 (60)  
 US 1996-13748P 19960320 (60)  
 US 1996-13764P 19960320 (60)  
 US 1996-13747P 19960320 (60)  
 US 1996-17455P 19960517 (60)  
 US 1996-17892P 19960517 (60)  
 US 1996-20478P 19960613 (60)  
 US 1996-22047P 19960722 (60)  
 US 1996-23494P 19960807 (60)  
 DT Utility  
 FS GRANTED  
 EXNAM Primary Examiner: Russel, Jeffrey E.  
 LREP McCarthy, Mary E., Venetianer, Stephen, Kinzig, Charles M.  
 CLMN Number of Claims: 1  
 ECL Exemplary Claim: 1  
 DRWN 24 Drawing Figure(s); 24 Drawing Page(s)  
 LN.CNT 29231  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 16 OF 46 USPATFULL on STN  
 AN 2001:112334 USPATFULL  
 TI 1-amino-7-isoquinoline derivatives as serine protease inhibitors  
 IN Liebeschuetz, John Walter, Bollington, United Kingdom  
 Wylie, William Alexander, Stockport, United Kingdom  
 Waszkowycz, Bohdan, Wilmslow, United Kingdom  
 Murray, Christopher William, Macclesfield, United Kingdom  
 Rimmer, Andrew David, Chorley, United Kingdom  
 Welsh, Pauline Mary, Macclesfield, United Kingdom  
 Jones, Stuart Donald, Prestbury, United Kingdom  
 Roscoe, Jonathan Michael Ernest, Holsworthy, United Kingdom  
 Young, Stephan Clinton, Stockport, United Kingdom  
 Morgan, Phillip John, Congleton, United Kingdom  
 Camp, Nicholas Paul, Macclesfield, United Kingdom  
 Crew, Andrew Philip Austin, Congleton, United Kingdom  
 PA Protherics Molecular Design Limited, Macclesfield, United Kingdom  
 (non-U.S. corporation)  
 PI US 6262069 B1 20010717  
 WO 9911657 19990311  
 AI US 2000-485677 20000225 (9)  
 WO 1998-GB2600 19980828  
 20000225 PCT 371 date  
 20000225 PCT 102(e) date  
 PRAI GB 1997-18392 19970829  
 GB 1998-3173 19980213  
 DT Utility  
 FS GRANTED  
 EXNAM Primary Examiner: Seaman, D. Margaret  
 LREP Hay, Martin A.  
 CLMN Number of Claims: 28  
 ECL Exemplary Claim: 1  
 DRWN No Drawings  
 LN.CNT 1986

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 17 OF 46 USPATFULL on STN  
AN 2001:29348 USPATFULL  
TI Strains of streptomyces producing endothelin antagonistic peptides  
IN Tanaka, Takeo, Machida, Japan  
Morishita, Yoshikazu, Machida, Japan  
Makino, Mika, Muroran, Japan  
Chiba, Shigeru, Kawasaki, Japan  
Kawamoto, Isao, Hiratsuka, Japan  
Tsukuda, Eiji, Shizuoka, Japan  
Yoshida, Mayumi, Sagamihara, Japan  
Bando, Chieko, Machida, Japan  
Yamaguchi, Kazuo, Sagamihara, Japan  
Matsuda, Yuzuru, Koganei, Japan  
Kitamura, Shigeto, Machida, Japan  
Ikemura, Toshihide, Mishima, Japan  
Ogawa, Tatsuhiko, Kawasaki, Japan  
Yano, Keiichi, Kawasaki, Japan  
Suzawa, Toshiyuki, Yamato, Japan  
Shibata, Kenji, Kawasaki, Japan  
Yamasaki, Motoo, Machida, Japan  
PA Kyowa Hakko Kogyo Co., Ltd., Tokyo, Japan (non-U.S. corporation)  
PI US 6194195 B1 20010227  
AI US 1998-181083 19981027 (9)  
RLI Continuation of Ser. No. US 1997-804923, filed on 24 Feb 1997, now  
abandoned Division of Ser. No. US 1994-321625, filed on 12 Oct 1994, now  
patented, Pat. No. US 5639860 Continuation-in-part of Ser. No. US  
1993-108612, filed on 27 Aug 1993, now abandoned  
PRAI JP 1991-347293 19911227  
WO 1992-JP1731 19921228  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Marx, Irene  
LREP Antonelli, Terry, Stout & Kraus, LLP.  
CLMN Number of Claims: 2  
ECL Exemplary Claim: 1,2  
DRWN No Drawings  
LN.CNT 2596

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 18 OF 46 USPATFULL on STN  
AN 2000:174129 USPATFULL  
TI Preparation for the application of agents in mini-droplets  
IN Cevc, Gregor, Heimstetten, Germany, Federal Republic of  
PA Idea AG, Munich, Germany, Federal Republic of (non-U.S. corporation)  
PI US 6165500 20001226  
AI US 1992-844664 19920408 (7)  
PRAI DE 1990-4026834 19900824  
DE 1990-4026833 19900824  
DE 1991-4107153 19910306  
WO 1991-EP1596 19910822  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Kishore, Gollamudi S.  
LREP Davidson, Davidson & Kappel, LLC  
CLMN Number of Claims: 35  
ECL Exemplary Claim: 1  
DRWN 31 Drawing Figure(s); 21 Drawing Page(s)  
LN.CNT 4336

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 19 OF 46 USPATFULL on STN  
AN 2000:149937 USPATFULL

TI Thermostable proteolytic enzymes and uses thereof in peptide and protein synthesis  
IN Young, David Michael, Gainesville, FL, United States  
PA University of Florida, Gainesville, FL, United States (U.S. corporation)  
PI US 6143517 20001107  
AI US 1998-197945 19981123 (9)  
RLI Continuation of Ser. No. US 1996-773475, filed on 23 Dec 1996, now abandoned  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Nashed, Nashaat T.  
LREP Saliwanchik, Lloyd & Saliwanchik  
CLMN Number of Claims: 4  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 953  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 20 OF 46 USPATFULL on STN  
AN 2000:9523 USPATFULL  
TI Porphyromonas gingivalis arginine-specific proteinase  
IN Travis, James, Athens, GA, United States  
Potempa, Jan Stanislaw, Athens, GA, United States  
PA University of Georgia Research Foundation, Inc., Athens, GA, United States (U.S. corporation)  
PI US 6017532 20000125  
AI US 1994-336308 19941108 (8)  
RLI Continuation-in-part of Ser. No. US 1994-265441, filed on 24 Jun 1994, now abandoned which is a continuation-in-part of Ser. No. US 1993-119361, filed on 10 Sep 1993, now patented, Pat. No. US 5523390  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Achutamurthy, Ponnathapu; Assistant Examiner: Slobodyansky, Elizabeth  
LREP Greenlee, Winner and Sullivan, PC  
CLMN Number of Claims: 4  
ECL Exemplary Claim: 1  
DRWN 7 Drawing Figure(s); 5 Drawing Page(s)  
LN.CNT 4435  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 21 OF 46 USPATFULL on STN  
AN 1999:150906 USPATFULL  
TI Method for treating a subject suffering from a condition associated with an extracellular zinc sphingomyelinase  
IN Tabas, Ira, New City, NY, United States  
Schissel, Scott L., Teaneck, NJ, United States  
Williams, Kevin Jon, Wynnwood, PA, United States  
PA The Trustees of Columbia University in the City of New York, New York, NY, United States (U.S. corporation)  
Thomas Jefferson University, Philadelphia, PA, United States (U.S. corporation)  
PI US 5989803 19991123  
AI US 1997-937234 19970908 (8)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Lankford, Jr., Leon B.; Assistant Examiner: Tate, Christopher R.  
LREP White, John P. Cooper & Dunham LLP  
CLMN Number of Claims: 8  
ECL Exemplary Claim: 1  
DRWN 35 Drawing Figure(s); 22 Drawing Page(s)  
LN.CNT 3580  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 22 OF 46 USPATFULL on STN  
AN 1999:145973 USPATFULL  
TI Biological control of insects  
IN Reed, Benjamin J., 19 Frederick Street, Ferntree Gully, Victoria,  
Australia  
Sandeman, Richard M., Plenty Road, Bundoora, Victoria, Australia  
Chandler, David S., Brassey Court, Mickleham, Vicotria, Australia  
PI US 5985273 19991116  
WO 9535031 19951228  
AI US 1997-765165 19970627 (8)  
WO 1995-AU347 19950615  
19970627 PCT 371 date  
19970627 PCT 102(e) date  
PRAI AU 1994-6313 19940617  
AU 1994-6876 19940715  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Weber, Jon P.  
LREP Fish & Richardson P.C.  
CLMN Number of Claims: 40  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 1538  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 23 OF 46 USPATFULL on STN  
AN 1999:92541 USPATFULL  
TI Protein expression system  
IN Sgarlato, Gregory D., Los Gatos, CA, United States  
PA Technologene, Inc., Los Gatos, CA, United States (U.S. corporation)  
PI US 5935824 19990810  
AI US 1996-595043 19960131 (8)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Ulm, John  
LREP Medlen & Carroll, LLP  
CLMN Number of Claims: 23  
ECL Exemplary Claim: 1  
DRWN 53 Drawing Figure(s); 44 Drawing Page(s)  
LN.CNT 5959  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 24 OF 46 USPATFULL on STN  
AN 1999:85629 USPATFULL  
TI Inhibitors of metalloproteases, pharmaceutical compositions comprising  
same and methods of their use  
IN Campbell, David A., San Mateo, CA, United States  
Patel, Dinesh V., Fremont, CA, United States  
Xiao, Xiao-Yi, La Jolla, CA, United States  
PA Affymax Technologies N.V., Greenford, United Kingdom (non-U.S.  
corporation)  
PI US 5929278 19990727  
AI US 1998-81466 19980519 (9)  
RLI Continuation of Ser. No. US 1995-549345, filed on 27 Oct 1995, now  
patented, Pat. No. US 5831004 which is a continuation-in-part of Ser.  
No. US 1995-484255, filed on 7 Jun 1995, now abandoned which is a  
continuation-in-part of Ser. No. US 1994-329420, filed on 27 Oct 1994,  
now abandoned  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Tsang, Cecilia J.; Assistant Examiner:  
Delacroix-Muirheid, C.  
LREP Swiss, Gerald F., Stevens, Lauren L.

CLMN Number of Claims: 8  
ECL Exemplary Claim: 1  
DRWN 17 Drawing Figure(s); 13 Drawing Page(s)  
LN.CNT 2235  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 25 OF 46 USPATFULL on STN  
AN 1999:21921 USPATFULL  
TI Dioxetane compounds for the chemiluminescent detection of proteases,  
methods of use and kits therefore  
IN Bronstein, Irena, Newton, MA, United States  
Edwards, Brooks, Cambridge, MA, United States  
Martin, Christopher, Belmont, MA, United States  
Sparks, Alison, North Andover, MA, United States  
Voyta, John C., Sudbury, MA, United States  
PA Tropix, Inc., New Bedford, MA, United States (U.S. corporation)  
PI US 5871938 19990216  
AI US 1997-935066 19970922 (8)  
RLI Continuation of Ser. No. US 1996-728990, filed on 11 Oct 1996, now  
patented, Pat. No. US 5843681 which is a continuation of Ser. No. US  
1995-385788, filed on 9 Feb 1995, now patented, Pat. No. US 5591591  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Ceperley, Mary E.  
LREP Oblon, Spivak, McClelland, Maier & Neustadt, P.C.  
CLMN Number of Claims: 15  
ECL Exemplary Claim: 1  
DRWN 5 Drawing Figure(s); 3 Drawing Page(s)  
LN.CNT 748  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 26 OF 46 USPATFULL on STN  
AN 1999:4640 USPATFULL  
TI Cathepsin and methods and compositions for inhibition thereof  
IN Tung, Jay S., Belmont, CA, United States  
Sinha, Sukanto, San Francisco, CA, United States  
Semko, Christopher M. F., Fremont, CA, United States  
PA Athena Neurosciences, Inc., South San Francisco, CA, United States (U.S.  
corporation)  
PI US 5858982 19990112  
AI US 1997-850392 19970502 (8)  
RLI Continuation of Ser. No. US 1995-469362, filed on 6 Jun 1995  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Tsang, Cecilia J.; Assistant Examiner: Borin, Michael  
LREP Burns, Doane, Swecker & Mathis, L.L.P.  
CLMN Number of Claims: 13  
ECL Exemplary Claim: 1  
DRWN 13 Drawing Figure(s); 10 Drawing Page(s)  
LN.CNT 2385  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 27 OF 46 USPATFULL on STN  
AN 1998:157467 USPATFULL  
TI Peptidase inhibitors  
IN Kolb, H. Michael, Cincinnati, OH, United States  
Burkhart, Joseph P., West Chester, OH, United States  
Jung, Michel J., Pfaffenhoffen, France  
Gerhart, deceased, Fritz E., late of Kehl Leutesheim, Germany, Federal  
Republic of by Jutta Gerhart, legal representative  
Giroux, Eugene L., Cincinnati, OH, United States  
Neises, Bernhard, Offenburg-Griesheim, Germany, Federal Republic of  
Schirlin, Daniel G., Lampertheim, France  
PA Merrell Pharmaceuticals Inc., Cincinnati, OH, United States (U.S.

corporation)  
PI US 5849866 19981215  
AI US 1995-481666 19950607 (8)  
RLI Division of Ser. No. US 1994-248847, filed on 25 May 1994, now patented,  
Pat. No. US 5496927 which is a continuation of Ser. No. US 1993-102522,  
filed on 4 Aug 1993, now abandoned which is a continuation of Ser. No.  
US 1992-980141, filed on 23 Nov 1992, now abandoned which is a  
continuation of Ser. No. US 1990-540033, filed on 19 Jun 1990, now  
abandoned which is a continuation-in-part of Ser. No. US 1989-372162,  
filed on 27 Jun 1989, now abandoned which is a continuation of Ser. No.  
US 1988-267758, filed on 1 Nov 1988, now abandoned which is a  
continuation of Ser. No. US 1986-874721, filed on 16 Jun 1986, now  
abandoned which is a continuation-in-part of Ser. No. US 1985-697987,  
filed on 4 Feb 1985, now abandoned  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Russel, Jeffrey E.  
LREP Wille, Louis J.  
CLMN Number of Claims: 27  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 2817  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 28 OF 46 USPATFULL on STN  
AN 1998:157315 USPATFULL  
TI Cathepsin and methods and compositions for inhibition thereof  
IN Tung, Jay S., Belmont, CA, United States  
Sinha, Sukanto, San Francisco, CA, United States  
McConlogue, Lisa, San Francisco, CA, United States  
Semko, Christopher M. F., Fremont, CA, United States  
PA Athena Neurosciences, Inc., South San Francisco, CA, United States (U.S.  
corporation)  
PI US 5849711 19981215  
AI US 1995-469362 19950606 (8)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Tsang, Cecilia J.; Assistant Examiner: Borin, Michael  
CLMN Number of Claims: 8  
ECL Exemplary Claim: 1  
DRWN 13 Drawing Figure(s); 10 Drawing Page(s)  
LN.CNT 2445  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 29 OF 46 USPATFULL on STN  
AN 1998:150698 USPATFULL  
TI Dioxetane compounds for the chemiluminescent detection of proteases,  
methods of use and kits therefore  
IN Bronstein, Irena, Newton, MA, United States  
Edwards, Brooks, Cambridge, MA, United States  
Martin, Christopher, Belmont, MA, United States  
Sparks, Alison, North Andover, MA, United States  
Voyta, John C., Sudbury, MA, United States  
PA Tropix, Inc., New Bedford, MA, United States (U.S. corporation)  
PI US 5843681 19981201  
AI US 1996-728990 19961011 (8)  
RLI Continuation of Ser. No. US 1995-385788, filed on 9 Feb 1995, now  
patented, Pat. No. US 5591591  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Ceperley, Mary E.  
LREP Oblon, Spivak, McClelland, Maier & Neustadt, P.C.  
CLMN Number of Claims: 16  
ECL Exemplary Claim: 1

DRWN 5 Drawing Figure(s); 3 Drawing Page(s)

LN.CNT 764

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 30 OF 46 USPATFULL on STN  
AN 1998:135148 USPATFULL  
TI Inhibitors of metalloproteases, pharmaceutical compositions comprising same and methods of their use  
IN Campbell, David A., San Mateo, CA, United States  
Patel, Dinesh V., Fremont, CA, United States  
Xiao, Xiao-Yi, San Diego, CA, United States  
PA Affymax Technologies N.V., Greenford, England (non-U.S. corporation)  
PI US 5831004 19981103  
AI US 1995-549345 19951027 (8)  
RLI Continuation-in-part of Ser. No. US 1995-484255, filed on 7 Jun 1995, now abandoned which is a continuation-in-part of Ser. No. US 1994-329420, filed on 27 Oct 1994, now abandoned  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Tsang, Cecilia J.; Assistant Examiner: Delacroix-Muirheid, C.  
LREP Swiss, Gerald F., Stevens, Lauren L.  
CLMN Number of Claims: 8  
ECL Exemplary Claim: 1  
DRWN 17 Drawing Figure(s); 13 Drawing Page(s)  
LN.CNT 2313  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 31 OF 46 USPATFULL on STN  
AN 1998:85817 USPATFULL  
TI Cathepsin and methods and compositions for inhibition thereof  
IN Tung, Jay S., 2224 Semeria Ave., Belmont, CA, United States 94002  
Sinha, Sukanto, 808 Junipero Serra Blvd., San Francisco, CA, United States 94127  
McConlogue, Lisa, 283 Juanita Way, San Francisco, CA, United States 94127  
Tatsuno, Gwen, 5910 Pinewood Rd., Oakland, CA, United States 94611  
Anderson, John, 21 Bucareli Dr., San Francisco, CA, United States 94132  
Chrysler, Susanna, 448-1/2 San Bruno Ave., Brisbane, CA, United States 94005  
PI US 5783434 19980721  
AI US 1995-467607 19950606 (8)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Zitomer, Stephanie W.; Assistant Examiner: Whisenant, Ethan  
LREP Burns, Doane, Swecker & Mathis, L.L.P.  
CLMN Number of Claims: 2  
ECL Exemplary Claim: 1  
DRWN 9 Drawing Figure(s); 10 Drawing Page(s)  
LN.CNT 2314  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 32 OF 46 USPATFULL on STN  
AN 97:76000 USPATFULL  
TI Recombinant coccidiosis vaccines  
IN Binger, Mary-Helen, Hopewell, NJ, United States  
Chizzonite, Richard Anthony, South Kent, CT, United States  
Kramer, Richard Allen, West Orange, NJ, United States  
Lomedico, Peter Thomas, Montclair, NJ, United States  
McAndrew, Stephen J., Meriden, CT, United States  
Altenburger, Werner, Muenchenstein, Switzerland  
PA Hoffmann-La Roche Inc., Nutley, NJ, United States (U.S. corporation)  
PI US 5661015 19970826

AI US 1991-812349 19911220 (7)  
RLI Continuation-in-part of Ser. No. US 1988-202721, filed on 3 Jun 1988,  
now abandoned  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Housel, James C.; Assistant Examiner: Portner, Ginny  
Allen  
LREP Johnston, George W., Epstein, William H., Smith, Catherine R.  
CLMN Number of Claims: 5  
ECL Exemplary Claim: 1  
DRWN 63 Drawing Figure(s); 47 Drawing Page(s)  
LN.CNT 2808  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 33 OF 46 USPATFULL on STN  
AN 97:52106 USPATFULL  
TI Endothelin-antagonizing peptide  
IN Tanaka, Takeo, Machida, Japan  
Morishita, Yoshikazu, Machida, Japan  
Makino, Mika, Muroran, Japan  
Chiba, Shigeru, Kawasaki, Japan  
Kawamoto, Isao, Hiratsuka, Japan  
Tsukuda, Eiji, Sunto-gun, Japan  
Yoshida, Mayumi, Sagamihara, Japan  
Bando, Chieko, Machida, Japan  
Yamaguchi, Kazuo, Sagamihara, Japan  
Matsuda, Yuzuru, Koganei, Japan  
Kitamura, Shigeto, Machida, Japan  
Ikemura, Toshihide, Mishima, Japan  
Ogawa, Tatsuhiro, Kawasaki, Japan  
Yano, Keiichi, Kawasaki, Japan  
Suzawa, Toshiyuki, Yamato, Japan  
Shibata, Kenji, Kawasaki, Japan  
Yamasaki, Motoo, Machida, Japan  
PA Kyowa Hakko Kogyo Co., Ltd., Tokyo, Japan (non-U.S. corporation)  
PI US 5639860 19970617  
AI US 1994-321625 19941012 (8)  
RLI Continuation-in-part of Ser. No. US 1993-108612, filed on 27 Aug 1993,  
now abandoned  
PRAI JP 1991-347293 19911227  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Tsang, Cecilia J.; Assistant Examiner: Lukton, David  
LREP Antonelli, Terry, Stout & Kraus, LLP  
CLMN Number of Claims: 4  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 3128  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 34 OF 46 USPATFULL on STN  
AN 97:1322 USPATFULL  
TI Dioxetane compounds for the chemiluminescent detection of proteases,  
methods of use and kits therefore  
IN Bronstein, Irena, Newton, MA, United States  
Edwards, Brooks, Cambridge, MA, United States  
Martin, Christopher, Belmont, MA, United States  
Sparks, Alison, North Andover, MA, United States  
Voyta, John C., Sudbury, MA, United States  
PA Tropix, Inc., New Bedford, MA, United States (U.S. corporation)  
PI US 5591591 19970107  
AI US 1995-385788 19950209 (8)  
DT Utility  
FS Granted



EXNAM Primary Examiner: Ceperley, Mary E.  
LREP Oblon, Spivak, McClelland, Maier & Neustadt, P.C.  
CLMN Number of Claims: 15  
ECL Exemplary Claim: 1,8  
DRWN 5 Drawing Figure(s); 3 Drawing Page(s)  
LN.CNT 747  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 35 OF 46 USPATFULL on STN  
AN 96:48476 USPATFULL  
TI Porphyromonas gingivalis arginine-specific proteinase  
IN Travis, James, Athens,, GA, United States  
Potempa, Jan S., Athens,, GA, United States  
Barr, Philip J., Berkeley, CA, United States  
Pavloff, Nadine, Novato, CA, United States  
PA University of Georgia Research Foundation, Inc., Athens, GA, United States (U.S. corporation)  
PI US 5523390 19960604  
AI US 1993-119361 19930910 (8)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Wax, Robert A.; Assistant Examiner: Kim, Hyosuk  
LREP Greenlee and Winner  
CLMN Number of Claims: 2  
ECL Exemplary Claim: 1  
DRWN 8 Drawing Figure(s); 6 Drawing Page(s)  
LN.CNT 2091  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 36 OF 46 USPATFULL on STN  
AN 96:19200 USPATFULL  
TI Peptidase inhibitors  
IN Kolb, H. Michael, Cincinnati, OH, United States  
Burkhart, Joseph P., West Chester, OH, United States  
Jung, Michel J., Pfaffenhoffen, France  
Gerhart, deceased, Fritz E., late of Kehl Leutesheim, Germany, Federal Republic of by Jutta Gerhart, legal representative  
Giroux, Eugene L., Cincinnati, OH, United States  
Neises, Bernhard, Offenbourg-Griesheim, Germany, Federal Republic of  
Schirlin, Daniel G., Lampertheim, France  
PA Merrell Pharmaceuticals Inc., Cincinnati, OH, United States (U.S. corporation)  
PI US 5496927 19960305  
AI US 1994-248847 19940525 (8)  
RLI Continuation of Ser. No. US 1993-102522, filed on 4 Aug 1993, now abandoned which is a continuation of Ser. No. US 1992-980141, filed on 23 Nov 1992, now abandoned which is a continuation of Ser. No. US 1990-540033, filed on 19 Jun 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-372162, filed on 27 Jun 1989, now abandoned which is a continuation of Ser. No. US 1988-267758, filed on 1 Nov 1988, now abandoned which is a continuation of Ser. No. US 1986-874721, filed on 16 Jun 1986, now abandoned which is a continuation-in-part of Ser. No. US 1985-697987, filed on 4 Feb 1985, now abandoned  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Warden, Jill; Assistant Examiner: Huff, Sheela J.  
LREP Boudreaux, William R.  
CLMN Number of Claims: 7  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 2467  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 37 OF 46 USPATFULL on STN  
AN 96:14731 USPATFULL  
TI Enzymatic resolution of .alpha.-tertiary carboxylic acid esters  
IN Kalwass, Helmut, Belmont, MA, United States  
Yee, Christopher, Needham, MA, United States  
Blythe, Todd, Malden, MA, United States  
Shames, Spencer, Concord, MA, United States  
Rogers, Elizabeth, Cambridge, MA, United States  
PA Genzyme Corporation, Cambridge, MA, United States (U.S. corporation)  
PI US 5492830 19960220  
AI US 1993-83943 19930625 (8)  
RLI Continuation-in-part of Ser. No. US 1992-870061, filed on 17 Apr 1992,  
now abandoned which is a continuation-in-part of Ser. No. US  
1991-697152, filed on 8 May 1991, now patented, Pat. No. US 5202260  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Wax, Robert A.; Assistant Examiner: Grimes, Eric  
LREP Gosz, William G.  
CLMN Number of Claims: 12  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 1041  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 38 OF 46 USPATFULL on STN  
AN 95:92711 USPATFULL  
TI Protease  
IN Teraoka, Hiroshi, Osaka, Japan  
Tamaki, Mikio, Nara, Japan  
Nakamura, Etsuo, Kobe, Japan  
Shin, Masaru, Kobe, Japan  
Yoshida, Nobuo, Nishinomiya, Japan  
Tsuzuki, Hiroshige, Tsuzuki, Japan  
Fujiwara, Takashi, Nara, Japan  
Matsumoto, Koichi, Osaka, Japan  
PA Shionogi & Co., Ltd., Osaka, Japan (non-U.S. corporation)  
PI US 5459064 19951017  
AI US 1993-35634 19930323 (8)  
RLI Division of Ser. No. US 1991-782372, filed on 24 Oct 1991, now abandoned  
PRAI JP 1990-288110 19901024  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Fleisher, Mindy B.  
LREP Morrison & Foerster  
CLMN Number of Claims: 11  
ECL Exemplary Claim: 1  
DRWN 6 Drawing Figure(s); 6 Drawing Page(s)  
LN.CNT 1069  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 39 OF 46 USPATFULL on STN  
AN 85:32794 USPATFULL  
TI Cleaning contact lenses with solution of bromelain and  
**carboxypeptidase**  
IN Anderson, Ronald L., 525 Sunbury Rd., Westerville, OH, United States  
43081  
Mascio, Maria R., 525 Sunbury Rd., Westerville, OH, United States 43081  
PI US 4521254 19850604  
AI US 1982-346013 19820205 (6)  
RLI Continuation-in-part of Ser. No. US 1981-232392, filed on 9 Feb 1981,  
now abandoned  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Marantz, Sidney

LREP Porter, Wright Morris & Arthur  
CLMN Number of Claims: 13  
ECL Exemplary Claim: 1  
DRWN 6 Drawing Figure(s); 2 Drawing Page(s)  
LN.CNT 704  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 40 OF 46 USPATFULL on STN  
AN 82:19052 USPATFULL  
TI Process for preparation of folic acid derivatives  
IN Farina, Peter R., North Salem, NY, United States  
Grattan, James A., Croton-on-Hudson both of, NY, United States  
PA Baker Instruments Corporation, Bethlehem, PA, United States (U.S. corporation)  
PI US 4326060 19820420  
AI US 1979-90064 19791031 (6)  
RLI Division of Ser. No. US 1979-34760, filed on 30 Apr 1979, now Defensive Publication No.  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Rizzo, Nicholas S.  
LREP Rauchfuss, George W.  
CLMN Number of Claims: 8  
ECL Exemplary Claim: 1  
DRWN 1 Drawing Figure(s); 1 Drawing Page(s)  
LN.CNT 789  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 41 OF 46 USPATFULL on STN  
AN 82:7010 USPATFULL  
TI Molecular transformation procedure  
IN Royer, Garfield P., Worthington, OH, United States  
PA Pierce Chemical Company, Rockford, IL, United States (U.S. corporation)  
PI US 4315074 19820209  
AI US 1979-51229 19790622 (6)  
RLI Division of Ser. No. US 1978-907503, filed on 19 May 1978, now patented, Pat. No. US 4182654, issued on 8 Jan 1980 And a continuation-in-part of Ser. No. US 1976-680462, filed on 26 Apr 1976, now abandoned which is a continuation-in-part of Ser. No. US 1974-507198, filed on 18 Sep 1974, now abandoned  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Hazel, Blondel  
CLMN Number of Claims: 12  
ECL Exemplary Claim: 1  
DRWN 1 Drawing Figure(s); 1 Drawing Page(s)  
LN.CNT 1216  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 42 OF 46 USPATFULL on STN  
AN 82:6924 USPATFULL  
TI Folic acid derivatives and process for preparation  
IN Farina, Peter R., North Salem, NY, United States  
Grattan, James A., Croton-on-Hudson, NY, United States  
PA Baker Instruments Corp., Bethlehem, PA, United States (U.S. corporation)  
PI US 4314988 19820209  
AI US 1979-90063 19791031 (6)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Nucker, Christine M.  
LREP Rauchfuss, Jr., George W.  
CLMN Number of Claims: 4  
ECL Exemplary Claim: 1  
DRWN 1 Drawing Figure(s); 1 Drawing Page(s)

LN.CNT 804

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 43 OF 46 USPATFULL on STN  
AN 81:60373 USPATFULL  
TI Folic acid derivatives  
IN Farina, Peter R., North Salem, NY, United States  
Grattan, James A., Croton-on-Hudson, NY, United States  
PA Union Carbide Corporation, New York, NY, United States (U.S.  
corporation)  
PI US 4298735 19811103  
AI US 1979-34760 19790430 (6)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Coughlan, Jr., Paul M.  
LREP Evans, J. Hart  
CLMN Number of Claims: 16  
ECL Exemplary Claim: 1  
DRWN 1 Drawing Figure(s); 1 Drawing Page(s)  
LN.CNT 801

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 44 OF 46 USPATFULL on STN  
AN 80:10375 USPATFULL  
TI Peptides having somatostatin activity  
IN Veber, Daniel F., Ambler, PA, United States  
PA Merck & Co., Inc., Rahway, NJ, United States (U.S. corporation)  
PI US 4190648 19800226  
AI US 1979-20148 19790313 (6)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Phillips, Delbert R.; Assistant Examiner: Hazel,  
Blondel  
LREP Rose, David L., Westlake, Harry E.  
CLMN Number of Claims: 3  
ECL Exemplary Claim: 1,3  
DRWN No Drawings  
LN.CNT 465

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 45 OF 46 USPATFULL on STN  
AN 80:1921 USPATFULL  
TI Production of polypeptides using polynucleotides  
IN Royer, Garfield P., Worthington, OH, United States  
PA Pierce Chemical Company, Rockford, IL, United States (U.S. corporation)  
PI US 4182654 19800108  
AI US 1978-907503 19780519 (5)  
RLI Continuation-in-part of Ser. No. US 1976-680462, filed on 26 Apr 1976,  
now abandoned which is a continuation-in-part of Ser. No. US  
1974-507198, filed on 18 Sep 1974, now abandoned  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Phillips, Delbert R.  
CLMN Number of Claims: 16  
ECL Exemplary Claim: 1  
DRWN 1 Drawing Figure(s); 1 Drawing Page(s)  
LN.CNT 1212

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 46 OF 46 USPATFULL on STN  
AN 78:52942 USPATFULL  
TI Somatostatin analogs  
IN Veber, Daniel F., Ambler, PA, United States  
PA Merck & Co., Inc., Rahway, NJ, United States (U.S. corporation)

PI US 4115554 19780919  
AI US 1977-828791 19770829 (5)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Phillips, Delbert R.  
LREP Patton, Walter, Westlake, Jr., Harry E.  
CLMN Number of Claims: 5  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 666  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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